

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

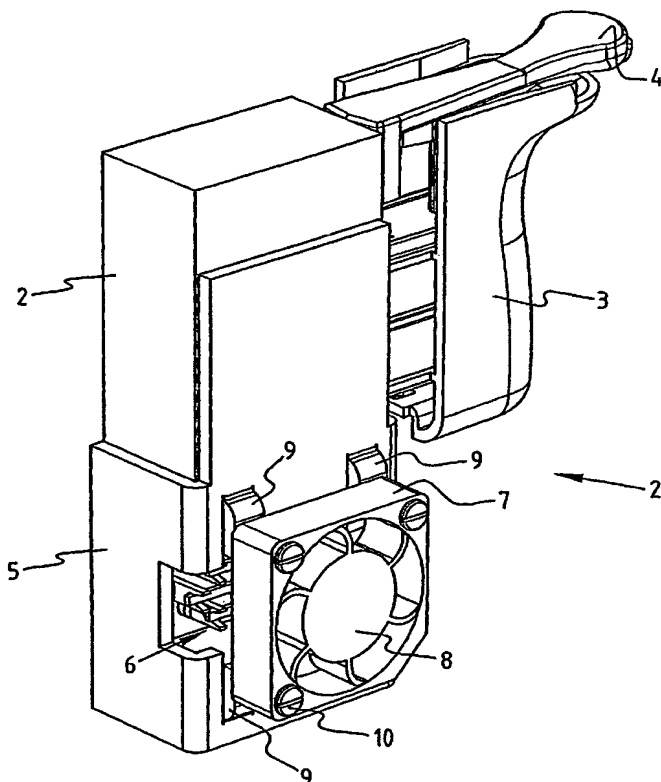
PCT

(10) International Publication Number
WO 2005/045863 A1

- (51) International Patent Classification⁷: **H01H 9/06**, 9/52, H02K 9/04
- (21) International Application Number: PCT/NL2004/000781
- (22) International Filing Date: 5 November 2004 (05.11.2004)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data: 1024744 7 November 2003 (07.11.2003) NL
- (71) Applicant (for all designated States except US): **ELECTRISCHE APPARATENFABRIEK CAPAX B.V.** [NL/NL]; Rooijakkersstraat 3A, NL-5652 BA Eindhoven (NL).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **PETERS, Willem, Jozef, Lodewijk, Marie, Guislens** [BE/BE]; Mandenmakersweg 11, B-3920 Lommel (BE).
- (74) Agent: **EVELLENS MAARSE, Pieter**; Patentwerk B.V., P.O. Box 1514, NL-5200 BN 's-Hertogenbosch (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: SWITCH UNIT WITH VENTILATION



(57) Abstract: The invention relates to a switch unit for an electric tool, wherein the switch unit comprises heat-dissipating components, wherein the switch unit comprises a fan, which is adapted to cool the heat-dissipating components. The fan will herein generate an airflow which is guided via the relevant components. The heat developed in these components can be discharged so that the relevant components, even in the case of high power, can be given small dimensions. According to a particular preferred embodiment, the heat-dissipating components are thermally coupled to a cooling body, and the fan is adapted to cool the cooling body.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.